

Storm Data and Unusual Weather Phenomena - June 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
IOWA, Southwest				
POTTAWATTAMIE COUNTY --- 0.5 E CRESCENT [41.37, -95.86]				
	06/14/13 20:07 CST		0	Thunderstorm Wind (MG 51 kt)
	06/14/13 20:07 CST		0	Source: Emergency Manager
A thunderstorm wind gust was measured at 59 mph by home weather equipment near Crescent.				
HARRISON COUNTY --- 2.1 N RIVER SIOUX [41.83, -96.05]				
	06/14/13 20:10 CST		0	Thunderstorm Wind (EG 52 kt)
	06/14/13 20:10 CST		0	Source: COOP Observer
The cooperative observer near Little Sioux estimated thunderstorm wind gusts were around 60 mph in the area.				
Thunderstorms developed in south central Nebraska during the afternoon of June 14th as an upper level trough over the northern Rockies lifted across the northern plains causing a warm front to move over eastern Nebraska. The storms intensified as they moved across mainly northeast Nebraska and west central Iowa. The storms produced mainly strong winds as they moved into western Iowa.				
MONTGOMERY COUNTY --- 1.7 ESE MC PHERSON [41.01, -95.30]				
	06/24/13 05:30 CST		0	Thunderstorm Wind (MG 64 kt)
	06/24/13 05:30 CST		0	Source: Emergency Manager
A home weather station measured a thunderstorm wind gust of 74 mph in the Red Oak area. The winds caused roof damage to farm outbuildings in the area.				
PAGE COUNTY --- 0.9 NW CLARINDA [40.74, -95.04]				
	06/24/13 06:18 CST		0	Hail (0.75 in)
	06/24/13 06:18 CST		0	Source: COOP Observer
Thunderstorms developed into southwest Iowa around sunrise on June 24th north of a stationary front fed by a strong low level jet. These storms developed ahead of a cluster of storms that eventually formed the beginning of a derecho that raced through Iowa and Illinois.				
POTTAWATTAMIE COUNTY --- 1.4 W COUNCIL BLUFFS [41.27, -95.90], 1.3 SSW CHAUTAUQUA [41.26, -95.81]				
	06/24/13 09:02 CST		0	Thunderstorm Wind (MG 52 kt)
	06/24/13 09:15 CST		0	Source: Emergency Manager
A bowing thunderstorm complex that brought fairly widespread tree damage to a large part of Omaha moved into the Council Bluffs area and then eventually through much of Pottawattamie and southern Shelby counties. Many trees were split or uprooted in Council Bluffs which caused damage to vehicles and homes and brought scattered power outages to town. A wind gust of 60 mph was measured by the Awos at the Council Bluffs airport at 1010 am CDT.				
POTTAWATTAMIE COUNTY --- 0.7 S OAKLAND [41.31, -95.40]				
	06/24/13 09:20 CST		0	Thunderstorm Wind (EG 52 kt)
	06/24/13 09:20 CST		0	Source: Trained Spotter
The bowing thunderstorm segment that began in the Omaha brought winds estimated at 60 mph to the Oakland area.				
SHELBY COUNTY --- HARLAN [41.65, -95.33]				
	06/24/13 09:40 CST		0	Thunderstorm Wind (MG 65 kt)
	06/24/13 09:40 CST		0	Source: AWOS
The bowing thunderstorm segment that began in Omaha raced through the Harlan area bringing a measured wind gust of 75 mph at the Harlan Awos. Tree and building damage was noted in town.				
An area of thunderstorms consolidated and strengthened over western Omaha during the mid morning hours of June 24th eventually proving to be the beginning of a Derecho that raced through Iowa and Illinois. In Nebraska the storm produced wind gusts that were measured at 69 mph by Asos at Omaha Eppley Airfield and produced widespread tree and other damage from west central Omaha into Iowa. In Iowa wind gusts were measured at 60 mph by the Awos in Council Bluffs and 75 mph by the Awos at Harlan. The storms initially formed across the western high plains the previous evening and steadily moved east feeding on modest instability and an increased low level jet.				

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Tree down at 5th Avenue and 21st Street in Council Bluffs from severe thunderstorm wind. Photo by Kathy Canty.

SHELBY COUNTY --- 1.2 SE HARLAN [41.64, -95.31]

06/25/13 01:05 CST	0	Hail (0.75 in)
06/25/13 01:05 CST	0	Source: Trained Spotter

SHELBY COUNTY --- 1.5 NNE DEFIANCE [41.85, -95.34]

06/25/13 04:58 CST	0	Hail (0.75 in)
06/25/13 04:58 CST	0	Source: Trained Spotter

Thunderstorms developed over western Iowa during the early morning hours of June 25th. The storms developed north of a weak boundary near the Kansas border aided by modestly high instability and a low level jet. A few of the storms dropped dime-size hail.

NEBRASKA, East

GAGE COUNTY --- 2.4 SW (BIE)BEATRICE ARPT [40.28, -96.78], 1.7 SW BEATRICE [40.25, -96.75], 2.4 SE BEATRICE [40.25, -96.70], 1.9 ESE BEATRICE [40.25, -96.70], 1.8 W (BIE)BEATRICE ARPT [40.30, -96.78], 1.6 SSE HOAG [40.30, -96.82]

06/01/13 00:00 CST	0	Flood (due to Heavy Rain)
06/01/13 08:28 CST	0	Source: River/Stream Gage

The flooding that began in late May continued into the first morning of June. The river actually crested on May 31st and fell below flood state at 830 am CST June 1st. The lowland flooding that was occurring in late May continued into early June.

NEMAHA COUNTY --- 3.7 NNE PERU [40.53, -95.70], 3.9 NNW PERU [40.53, -95.77], 2.3 NNE PERU [40.51, -95.72], 0.3 SW BROWNVILLE [40.40, -95.65], 0.7 S NEMAHA [40.32, -95.67], 8.4 SE NEMAHA [40.24, -95.56], 9.5 ESE NEMAHA [40.26, -95.51]

06/01/13 00:00 CST	0	Flood (due to Heavy Rain)
06/01/13 11:30 CST	0	Source: River/Stream Gage

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Heavy rainfall from thunderstorms over the last two weeks of May prompted the Missouri River to flood. The Missouri River at Brownville crested on May 31st and eventually fell below flood stage during the early afternoon on June 1st. The lowland flooding along the river in Nemaha county was observed from late May into the first day of June.				

RICHARDSON COUNTY --- 2.7 NNE BARADA [40.26, -95.57], 5.2 ESE BARADA [40.18, -95.49], 0.3 ENE RULO [40.05, -95.42], 5.5 SE RULO [40.00, -95.35], 7.9 ESE RULO [40.00, -95.29], 5.9 NNE RULO [40.13, -95.39], 5.9 NE BARADA [40.27, -95.49]

06/01/13 00:00 CST	0	Flood (due to Heavy Rain)
06/02/13 03:35 CST	0	Source: River/Stream Gage

Heavy rainfall from thunderstorms over the last two weeks in May created lowland flooding along the Missouri River which lasted from late May into early June. The Missouri River at Rulo crested on May 31st and then started to fall, falling below flood stage during the early morning of June 2nd.

Several heavy thunderstorm rainfalls in the last two weeks of May created flooding along area rivers in eastern Nebraska, some of this flooding continued into early June along the Missouri and Big Blue Rivers.

PLATTE COUNTY --- 1.2 ESE MONROE [41.47, -97.60]

06/14/13 17:14 CST	0	Hail (1.00 in)
06/14/13 17:14 CST	0	Source: Trained Spotter

PLATTE COUNTY --- 0.9 NE HUMPHREY [41.69, -97.49]

06/14/13 17:41 CST	0	Hail (1.00 in)
06/14/13 17:41 CST	0	Source: Emergency Manager

PLATTE COUNTY --- 0.9 NE CRESTON [41.71, -97.36]

06/14/13 17:50 CST	0	Thunderstorm Wind (EG 52 kt)
06/14/13 17:50 CST	0	Source: Emergency Manager

In the city of Creston there was tree and power line damage, including at least one tree that fell on a house.

CUMING COUNTY --- 0.5 W MONTEREY [41.80, -96.83]

06/14/13 17:56 CST	0	Hail (1.75 in)
06/14/13 17:56 CST	0	Source: Public

The public reported golf ball size hail fell at a couple of different times through the evening associated with a very slow moving supercell . The resident indicated that the hail was very infrequent when it was falling.

STANTON COUNTY --- 11.8 S STANTON [41.78, -97.22]

06/14/13 18:00 CST	0	Hail (1.50 in)
06/14/13 18:00 CST	0	Source: Emergency Manager

STANTON COUNTY --- 4.6 SW PILGER [41.97, -97.11]

06/14/13 18:18 CST	0	Hail (1.50 in)
06/14/13 18:18 CST	0	Source: Emergency Manager

BOONE COUNTY --- 0.7 S ALBION [41.69, -98.00]

06/14/13 18:48 CST	0	Thunderstorm Wind (MG 55 kt)
06/14/13 18:58 CST	0	Source: AWOS

Thunderstorm wind gusts which were measured at 63 mph at the Albion Awos caused scattered damage in town which included trees and power lines.

CUMING COUNTY --- 3.9 S BEEMER [41.87, -96.83], 7.4 SSW WISNER [41.89, -97.00], 9.6 WSW MONTEREY [41.76, -97.00], 2.8 S MONTEREY [41.76, -96.83]

06/14/13 19:15 CST	0	Flash Flood (due to Heavy Rain)
06/14/13 21:00 CST	0	Source: Emergency Manager

Rainfall from heavy thunderstorms created flash flooding across parts of Cuming County. This included the North Pebble Creek as well as the main stem of Pebble Creek. Rainfall estimates of 5 to 6 inches occurred across these creek basins. Water also briefly covered United States Highway 275, but several gravel roads were closed for hours due to the heavy rain. Closures included County Roads J and 7.

DODGE COUNTY --- 2.8 S FREMONT [41.41, -96.49]

06/14/13 19:20 CST	0	Hail (1.75 in)
06/14/13 19:20 CST	0	Source: Public

Storm Data and Unusual Weather Phenomena - June 2013

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The pubic reported hail up to the size of golf balls along United States Highway 275 about 2 miles south of Fremont.				
DOUGLAS COUNTY --- 0.7 N VALLEY [41.33, -96.35]				
	06/14/13 19:20 CST		0	Hail (1.00 in)
	06/14/13 19:20 CST		0	Source: Official NWS Observations

Hail up to the size of quarters fell at the National Weather Service Office in Valley.

DODGE COUNTY --- 2.8 S FREMONT [41.41, -96.49]				
	06/14/13 19:21 CST		0	Thunderstorm Wind (EG 52 kt)
	06/14/13 19:21 CST		0	Source: Trained Spotter

On the south side of the city of Fremont there were a couple of large entire trees down, while in the city of Fremont there some more isolated 3 to 5 inch limbs down.

DODGE COUNTY --- 0.5 W NICKERSON [41.53, -96.49]				
	06/14/13 19:28 CST		0	Thunderstorm Wind (EG 52 kt)
	06/14/13 19:28 CST		0	Source: Trained Spotter

A wind gust to around 60 mph was reported. This resulted in scattered tree damage across town.

DODGE COUNTY --- 3.9 ENE WINSLOW [41.64, -96.45]				
	06/14/13 19:30 CST		0	Thunderstorm Wind (EG 52 kt)
	06/14/13 19:30 CST		0	Source: Storm Chaser

A report from a storm chasing indicated gusts to near 60 mph associated with the line of thunderstorms.

Thunderstorms developed in south central Nebraska during the afternoon of June 14th as an upper level trough over the northern Rockies lifted across the northern plains causing a warm front to move over eastern Nebraska. The storms intensified as they moved across mainly northeast Nebraska and west central Iowa. Besides large hail and damaging winds a few of the storms produced heavy rain which caused localized flash flooding.

ANTELOPE COUNTY --- 20.9 NNE BRUNSWICK [42.59, -97.75]				
	06/15/13 06:35 CST		0	Hail (1.00 in)
	06/15/13 06:35 CST		0	Source: Trained Spotter

CEDAR COUNTY --- 5.1 NNE MENOMINEE [42.85, -97.39]				
	06/15/13 07:28 CST		0	Thunderstorm Wind (EG 52 kt)
	06/15/13 07:28 CST		0	Source: Law Enforcement

Thunderstorm wind gusts estimated at least 60 mph caused extensive damage in south Yankton . Numerous tree limbs and power lines were downed by the storm. There was also structural damage to Riverside Auto Body . Here the roof was removed, and a number of storage units were destroyed. Damage was scattered for a half block downstream from the site.

Thunderstorms which developed over western Nebraska during the evening of June 14th intensified as they moved into northeast Nebraska after 6 am on the 15th. The thunderstorms initially produced large hail, but after continuing east, damaging wind become predominate before the storms exited into southeast South Dakota and northwest Iowa.

KNOX COUNTY --- 1.7 WNW SANTEE [42.84, -97.85]				
	06/21/13 20:23 CST		0	Hail (1.00 in)
	06/21/13 20:23 CST		0	Source: Trained Spotter

The hail was mostly pea to dime-size but a few were around quarter-size.

Scattered thunderstorms developed in northeast Nebraska during the evening of June 21. The storms developed north of an outflow boundary that had pushed south across northeast Nebraska. One of the storms dropped quarter-size hail in far northeast Nebraska before moving into South Dakota.

DOUGLAS COUNTY --- 2.2 WSW MILLARD [41.21, -96.16], 0.5 ENE (OMA)EPPELY FLD OMAH [41.30, -95.89]				
	06/24/13 08:45 CST		0	Thunderstorm Wind (MG 60 kt)
	06/24/13 09:00 CST		0	Source: ASOS

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A bowing thunderstorm complex brought fairly widespread tree damage to a large part of Omaha . Many trees were split or uprooted which caused damage to vehicles and homes and brought power outages to a little over 50,000 OPPD customers. Damage reports started coming in across west Omaha near 144th or 156th Streets from near Center north to around Blondo with the damage become more widespread from central into north Omaha. Several reports of winds around or higher than 60 mph came in across the city, and the Asos at Omaha Eppley Airfield measured a wind gust of 69 mph at 1000 am CDT. The strong winds and damage continued into western Iowa.				

An area of thunderstorms consolidated and strengthened over western Omaha during the mid morning hours of June 24th eventually proving to be the beginning of a Derecho that raced through Iowa and Illinois. In Nebraska the storm produced wind gusts that were measured at 69 mph by Asos at Omaha Eppley Airfield and produced widespread tree and other damage from west central Omaha into Iowa. The storms initially formed across the western high plains the previous evening and steadily moved east feeding on modest instability and an increased low level jet.

SALINE COUNTY --- 4.8 S FRIEND [40.58, -97.28]

06/25/13 04:27 CST	0	Hail (0.75 in)
06/25/13 04:27 CST	0	Source: Emergency Manager

SALINE COUNTY --- 8.2 SSW FRIEND [40.54, -97.34]

06/25/13 04:35 CST	0	Hail (1.00 in)
06/25/13 04:35 CST	0	Source: Trained Spotter

SALINE COUNTY --- 4.0 W DORCHESTER [40.65, -97.20]

06/25/13 04:53 CST	0	Hail (0.75 in)
06/25/13 04:53 CST	0	Source: Emergency Manager

SALINE COUNTY --- 7.6 SSW FRIEND [40.55, -97.34], 1.6 E FRIEND [40.65, -97.25]

06/25/13 04:55 CST	0	Hail (2.10 in)
06/25/13 04:55 CST	0	Source: Trained Spotter

Hail, in some cases a little larger than golf ball-size even measured a few hours after the storm, caused scattered crop damage near Friend. There were still some small drifts of hail left in the fields a few hours after the storm as well.

BUTLER COUNTY --- 5.4 ENE BELLWOOD [41.37, -97.15]


06/25/13 06:02 CST	0	Hail (1.00 in)
06/25/13 06:02 CST	0	Source: Trained Spotter

Thunderstorms developed into southeast Nebraska during the early morning hours of June 25th. The storms developed north of a weak boundary near the Kansas border aided by modestly high instability and a low level jet. A few of the storms dropped large hail.

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<i>Hail a bit bigger than golf ball size fell near Friend, NE. Photo by B.J. Fictum.</i>				
SALINE COUNTY --- 2.0 E DORCHESTER [40.65, -97.08]				
	06/27/13 06:00 CST	0		Thunderstorm Wind (EG 50 kt)
	06/27/13 06:00 CST	0		Source: Newspaper
Thunderstorm wind gusts estimated at around 60 mph damaged pivots and downed trees east of Dorchester. Time was estimated from radar.				
GAGE COUNTY --- 0.9 NW CORTLAND [40.51, -96.71]				
	06/27/13 06:45 CST	0		Thunderstorm Wind (EG 60 kt)
	06/27/13 06:45 CST	0		Source: Emergency Manager
Several trees and power lines were downed and a grain bin toppled and pushed into a surrounding field by thunderstorm wind gusts estimated at around 70 mph.				
GAGE COUNTY --- 0.9 SW ADAMS [40.46, -96.51]				
	06/27/13 06:55 CST	0		Thunderstorm Wind (EG 60 kt)
	06/27/13 06:55 CST	0		Source: Emergency Manager
Several large trees were uprooted and other tree and house damage was noted in the Adams area by thunderstorm wind gusts estimated at around 70 mph.				
JOHNSON COUNTY --- 1.7 ESE STERLING [40.46, -96.34]				
	06/27/13 07:05 CST	0		Hail (1.75 in)
	06/27/13 07:05 CST	0		Source: Trained Spotter
Large hail was reported in the Sterling area by a spotter. The hail was probably at least golf ball-size, but some reports in the area stated a few stones could have reached softball-size.				
JOHNSON COUNTY --- 0.9 SW STERLING [40.46, -96.38]				
	06/27/13 07:07 CST	0		Thunderstorm Wind (EG 52 kt)
	06/27/13 07:07 CST	0		Source: Trained Spotter
Trees and power lines came down, some fell onto vehicles.				
RICHARDSON COUNTY --- FALLS CITY [40.07, -95.60]				
	06/27/13 08:00 CST	0		Thunderstorm Wind (EG 52 kt)
	06/27/13 08:00 CST	0		Source: Law Enforcement
Several trees and power lines were blown down.				
JEFFERSON COUNTY --- 3.2 E DAYKIN [40.32, -97.22]				
	06/27/13 11:55 CST	0		Hail (1.00 in)
	06/27/13 11:55 CST	0		Source: Trained Spotter
JEFFERSON COUNTY --- 2.8 S DILLER [40.06, -96.94]				
	06/27/13 12:35 CST	0		Hail (0.75 in)
	06/27/13 12:35 CST	0		Source: Public
An area of thunderstorms developed overnight across northeast Nebraska along the nose of a strong low level jet. These storms continued to move southeast across southeast Nebraska. Heavy rain, damaging winds nearing 70 miles per hour and hail were reported across southeast Nebraska. Several trees were uprooted and power lines were down near Adams in Gage county and in Saline county center pivots were damaged and trees downed east of Dorchester.				